

## STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

April 14, 2004

U. S. Army Corps of Engineers Regulatory Field Office 151 Patton Avenue, Room 208 Asheville, NC 28801-5006

ATTENTION:

Mr. Steve Lund

**NCDOT Coordinator** 

Dear Sir:

SUBJECT:

**Nationwide Permit 12, 23 and 33 Applications** for the proposed replacement of Bridge No. 704 on SR 1319 (Johnston School Road) over tributary to Mill Creek, in Buncombe County. Federal Aid Project No. BRZ-1319(11), State Project No. 8.2844101, TIP No. B-3616.

Please find enclosed three copies of the project planning report for the above referenced project. NCDOT proposes to replace Bridge No. 740 on the existing alignment with a 119-foot triple barrel, 7.0 x 8.0-foot reinforced concrete box culvert. Two of the barrels (barrels 1 and 3) will be silled to simulate the natural width of the stream. Traffic will be maintained using two signed off-site detours consisting of US 19-23-74N, NC 63, SR 1315, and SR 1319 with a length of 4.8 miles, and US 19-23-74S, Dearview Road, Bear Creek Road, and SR 1319 with a length of 2.1 miles. There are no jurisdictional wetlands within the project area.

#### **Impacts to Waters of the United States**

<u>Permanent Impacts</u>: Tributary to Mill Creek will be impacted by the proposed project. Construction of the proposed project will result in total of 0.02 acres of permanent fill in surface water. In total, 119 feet of existing stream channel will be permanently impacted by this project.

<u>Temporary Impacts</u>: Temporary dewatering is necessary for culvert installation. The temporary dewatering will occur at the elevation and location as shown in the permit drawings. Diking materials and methods will be determined during construction by the contractor. Temporary impervious dikes and associated ponding and dewatering will result in 0.01 acres of temporary impacts affecting 55 feet of existing stream channel.

### **Utilities**

Currently the City of Asheville has a 6" water line made of cast iron, a 16" water line made of ductile iron, and a 15" gravity sewer line made of ductile iron in the project boundaries. The 16"

WEBSITE: WWW.NCDOT.ORG

water lines will be in conflict with the proposed box culvert and will have to be relocated. The 16" pipe is currently located south of the existing bridge. NCDOT will relocate this utility to the edge of the right of way on the south side of the bridge, requiring approximately 200 feet of new pipe to be laid.

The section of stream at the utility crossing location is approximately 2 feet wide. The most environmentally sound method for this utility installation will be the use of an open cut. Though bore and jack-type construction is often used in environmentally sensitive areas, the open cut method will be less environmentally damaging in this case due to the small size of the stream.

#### **Bridge Demolition**

Bridge No. 740 in Buncombe County was built in 1976. The structure is one 26-foot span, completely spanning the tributary to Mill Creek. The height of the structure above the streambed is 8 feet. The structure of the existing bridge is composed of a timber deck on steel girders. The superstructure is composed of Yount masonry abutments. This structure can be removed without dropping any of its components into the tributary to Mill Creek. However, the removal of the substructure and installation of a culvert will create disturbance in the streambed. All measures will be taken to avoid any temporary fill from entering Waters of the U.S.; Best Management Practices for Bridge Demolition and Removal will be implemented.

#### **Culvert Construction**

Bridge No. 740 will be replaced with a triple-barrel 7.0 x 8.0-foot reinforced concrete box culvert. Two of the barrels (barrels 1 and 3) will be silled to simulate the natural width of the stream. Construction of the culvert will require dewatering of the natural stream channel of tributary to Mill Creek.

### **Construction Sequence:**

- 1. Construct Silling Basin (34 cubic yards)
- 2. Construct Impervious Dikes
- 3. Install 24 inch Temporary Pipe
- 4. Construct Culvert
- 5. Remove Temporary Dikes and Pipe
- 6. Complete Roadway

#### **Restoration Plan:**

Following culvert completion, all material used in the construction of the temporary impervious dikes and temporary pipe will be removed. The stream will then be restored to its pre-project contours. The temporary impact area associated with the construction is expected to recover naturally, since the natural streambed and plant material will not be dramatically impacted.

### **Temporary Dewatering**

There will be 55 feet of temporary impacts in tributary to Mills Creek from the construction of the proposed culvert for the replacement of Bridge No. 470. The area of temporary impacts will result from dewatering for the installation of the triple-barrel 7.0 x 8.0 foot reinforced concrete box culvert in the existing stream channel.

It is assumed that the contractor will begin construction of the proposed culvert shortly after the date of availability for the project. The Let date is August 17, 2004 with a date of availability of September 13, 2004.

#### Water Resources

The water resource impacted for project B-3616 is a tributary to Mill Creek, a tributary of the French Broad River. Unnamed tributaries receive the same classification as the named streams into which they flow. The North Carolina Department of Environment and Natural Resources classifies Mill Creek as "C". Class "C" waters are suitable for secondary recreation, fishing, wildlife, fish and aquatic life propagation and survival, and agriculture. The classification date and index number for this portion of the creek are 7/1/73, 6-79.

There are no Outstanding Resource Waters (ORW), High Quality Waters (HQW), WS-I, or WS-II within 1 mile upstream or downstream of the project study area (DEM 1993, DWQ 2003b).

According to the North Carolina Wildlife Resource Commission, Mill Creek is not considered to be trout waters. No special restrictions are required for in-water work other than those outlined in the NCDOT guidelines, "Best Management Practices for Protection of Surface Waters".

Mill Creek is not designated as a National Wild and Scenic River or a State Natural and Scenic River.

#### **Federally Protected Species**

Plants and animals with federal classifications of Endangered, Threatened, Proposed Endangered, and Proposed Threatened are protected under provisions of Section 7 and Section 9 of the Endangered Species Act of 1973, as amended. As of January 29, 2003, the Fish and Wildlife Service (FWS) lists twelve federally protected species for Buncombe County (Table 1). The Biological Conclusions for each of these species remain valid.

Biological conclusions of "No Effect" were reached for all listed species as reflected in the attached CE dated November 2002. We have updated the information for the three species that had suitable habitat within the project area: spotfin chub, Appalachian elktoe and oyster mussel. A site search for the spotfin chub was done by NCDOT biologist Mr. Neil Medlin September 12, 2002 and no individuals were found. In June 2001 NCDOT staff biologists surveyed for the Appalachian elktoe and oyster mussel with a conclusion of "No Effect".

Table 1. Federally-Protected Species for Buncombe County

Common Name	Scientific Name	Status	Biological conclusion
Bog turtle	Clemmys muhlenbergii	$T(S/A)^1$	N/A
Carolina northern flying squirrel	Glaucomys sabrinus coloratus	Е	No Effect
Eastern cougar	Puma concolor couguar	Е	No Effect
Gray bat	Myotis grisescens	E**	No Effect
Spotfin chub	Hybopsis monacha	T*	No Effect
Appalachian elktoe	Alasmidonta raveneliana	Е	No Effect
Oyster mussel	Epioblasma capsaeformis	E***	No Effect
Bunched arrowhead	Sagittaria fasciculata	E*	No Effect
Mountain sweet pitcher plant	Sarracenia jonesii	E*	No Effect
Spreading avens	Geum radiatum	Е	No Effect
Virginia spiraea	Spiraea virginiana	Т	May Affect, Not Likely to
Virginia spiraea	Spiraea virginiana	1	Adversely Affect
Rock gnome lichen	Gymnoderma lineare	Е	No Effect

KEY:

Status Definition

E - A taxon "in danger of extinction throughout all or a significant portion of its range."

T - A taxon "likely to become endangered within the foreseeable future throughout all or a significant

portion of its range."

**T(S/A)** - Threatened due to similarity of appearance (e.g., <u>American alligator</u>)--a species that is threatened due to similarity of appearance with other rare species and is listed for its protection. These species are not biologically endangered or threatened and are not subject to Section 7 consultation.

\*Historic record - the species was last observed in the county more than 50 years ago.

### **Regulatory Approvals**

Section 404 Permit: It is anticipated that the temporary dewatering of Mill Creek will be authorized under Section 404 Nationwide Permit 33 (Temporary Construction Access and Dewatering). We are, therefore, requesting the issuance of a Nationwide Permit 33 authorizing the temporary dewatering of Mill Creek. It is also anticipated that the relocation of utilities will be authorized under Section 404 Nationwide Permit 12 (Utility Line Activities; Activities required for the construction, maintenance, and repair of utility lines and associated facilities). All other aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR § 771.115(b). The NCDOT requests that these activities be authorized by a Nationwide Permit 23 (FR number 10, pages 2020-2095; January 15, 2002).

<u>Section 401 Permit</u>: We anticipate 401 General Certifications numbers 3403 and 3366 will apply to this project. In accordance with 15A NCAC 2H .0501(a) we are providing two copies of this application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality, for their records.

We anticipate that comments from the North Carolina Wildlife Resources Commission (NCWRC) will be requested prior to authorization by the Corps of Engineers. By copy of this letter and attachment, NCDOT hereby requests NCWRC review. NCDOT requests that NCWRC forward their comments to the Corps of Engineers.

<u>TVA</u>: This project is located within the jurisdiction of the Tennessee Valley Authority (TVA). Therefore, an approval under Section 26a of the TVA Act will be required.

<sup>\*\*</sup>Incidental/migrant record - the species was observed outside of its normal range or habitat.

<sup>\*\*\*</sup>Historic record - obscure and incidental record.

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Michael Turchy at <a href="maturchy@dot.state.nc.us">maturchy@dot.state.nc.us</a> or (919) 715-1468.

Sincerely,

Gregory J. Thorpe, Ph.D., Environmental Management Director Project Development and Environmental Analysis Branch

cc:

Mr. John Hennessy, Division of Water Quality (2 copies)

Ms. Marella Buncick, USFWS

Ms. Marla Chambers, NCWRC

Mr. Harold Draper, TVA

Mr. Jay Bennett, P.E., Roadway Design

Mr. Omar Sultan, Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Mr. David Chang, P.E., Hydraulics

Mr. Greg Perfetti, P.E., Structure Design

Mr. Mark Staley, Roadside Environmental

Mr. John F. Sullivan III, P. E., FHWA

Mr. J. J. Swain, P.E., Division Engineer

Mr. Roger Bryan, DEO

Mr. David Franklin, USACE, Wilmington (Cover Letter only)

Mr. John Wadsworth, P.E., Project Development Consultant Engineer

Offic	ce Us	e Only:				Form Version May 2002	
USA	CE A	Action ID No (If any particular item is no		DWQ N	0		
	The state of the s	(If any particular item is no	ot applicable to this pro	oject, please e	nter "Not App	olicable" or "N/A".)	
I.	Pr	rocessing					
	1.	Check all of the approva	`	this project:	Riparian	or Watershed Buffer Rule Wetland Permit from DWO	
	<u>2.</u>	Nationwide, Regional of	r General Permit N	Tumber(s) R	equested:_	Nationwide 12, 23 and 33	3
	3.	If this notification is solits not required, check he		y because w	ritten appro	oval for the 401 Certification	n
	4.	= '	erify availability v		_	m (NCWRP) is proposed f submittal of PCN), comple	
	5.		within a North Ca	ırolina Div	ision of Co	stal counties (listed on pa pastal Management Area , check here:	
II.	Aj	oplicant Information					
	1.	Owner/Applicant Inform Name: North Mailing Address: 1548 I	Carolina Departm				
		Telephone Number: 91 E-mail Address:	9-733-7844	Fax N		19-715-1501	_
	2.	must be attached if the A Name: Company Affiliation:	Agent has signatory N/A	authority 1	for the own	e Agent Authorization letter/applicant.)	er 
		-					_
		Telephone Number:		Fax N	Number:		

### III. Project Information

Attach a **vicinity map** clearly showing the location of the property with respect to local landmarks such as towns, rivers, and roads. Also provide a detailed **site plan** showing property boundaries and development plans in relation to surrounding properties. Both the vicinity map and site plan must include a scale and north arrow. The specific footprints of all buildings, impervious surfaces, or other facilities must be included. If possible, the maps and plans should include the appropriate USGS Topographic Quad Map and NRCS Soil Survey with the property boundaries outlined. Plan drawings, or other maps may be included at the applicant's discretion, so long as the property is clearly defined. For administrative and distribution purposes, the USACE requires information to be submitted on sheets no larger than 11 by 17-inch format; however, DWQ may accept paperwork of any size. DWQ prefers full-size construction drawings rather than a sequential sheet version of the full-size plans. If full-size plans are reduced to a small scale such that the final version is illegible, the applicant will be informed that the project has been placed on hold until decipherable maps are provided.

1.	Name of project: Replacement of Bridge 740 over tributary to Mill Creek on SR 1319 (Johnston's School Rd) in Asheville.
2.	T.I.P. Project Number or State Project Number (NCDOT Only): B-3616
3.	Property Identification Number (Tax PIN): N/A
4.	Location
	County: Buncombe Nearest Town: Asheville Subdivision name (include phase/lot number):
	Directions to site (include road numbers, landmarks, etc.): <u>Located on SR 1319 between intersections with Rash Rd.</u> and Southern Railway, over Tributary to Mills Creek
5.	Site coordinates, if available (UTM or Lat/Long): N35° 35.118', W82° 36.582' (Note – If project is linear, such as a road or utility line, attach a sheet that separately lists the coordinates for each crossing of a distinct waterbody.)
6.	Property size (acres): N/A
7.	Nearest body of water (stream/river/sound/ocean/lake): Tributary to Mills Creek
8.	River Basin: French Broad  (Note – this must be one of North Carolina's seventeen designated major river basins. The River Basin map is available at <a href="http://h2o.enr.state.nc.us/admin/maps/">http://h2o.enr.state.nc.us/admin/maps/</a> .)
9.	Describe the existing conditions on the site and general land use in the vicinity of the project at the time of this application <u>Urban local</u> , with residential land dominant.
10.	Describe the overall project in detail, including the type of equipment to be used:

	Replacing single span bridge with a triple-barrel culvert using heavy mechanical highway construction equipment.
	11. Explain the purpose of the proposed work: <u>Investigations by the Bridge Maintenance Unit indicate that rehabilitation of the existing structures is not feasible due to age and deteriorated conditions</u> . <u>Bridge No. 740 carries a sufficiency rating of 50.7 out of a possible 100</u> . This structure is considered functionally obsolete. Replacement of the bridge will result in safer and more efficient traffic operations.
<b>7.</b>	Prior Project History
	If jurisdictional determinations and/or permits have been requested and/or obtained for this project (including all prior phases of the same subdivision) in the past, please explain. Include the USACE Action ID Number, DWQ Project Number, application date, and date permits and certifications were issued or withdrawn. Provide photocopies of previously issued permits, certifications or other useful information. Describe previously approved wetland, stream and buffer impacts, along with associated mitigation (where applicable). If this is a NCDOT project, list and describe permits issued for prior segments of the same T.I.P. project, along with construction schedules.  N/A
•	Future Project Plans
	Are any future permit requests anticipated for this project? If so, describe the anticipated work,

## VI. Proposed Impacts to Waters of the United States/Waters of the State

It is the applicant's (or agent's) responsibility to determine, delineate and map all impacts to wetlands, open water, and stream channels associated with the project. The applicant must also provide justification for these impacts in Section VII below. All proposed impacts, permanent and temporary, must be listed herein, and must be clearly identifiable on an accompanying site plan. All wetlands and waters, and all streams (intermittent and perennial) must be shown on a delineation map, whether or not impacts are proposed to these systems. Wetland and stream evaluation and delineation forms should be included as appropriate. Photographs may be included at the applicant's discretion. If this proposed impact is strictly for wetland or stream mitigation, list and describe the impact in Section VIII below. If additional space is needed for listing or description, please attach a separate sheet.

Provide a written description of the proposed impacts: <u>There will be no impacts to jurisdictional wetlands from the replacement of Bridge No. 740</u>. However, construction around the bridge site will result in a small amount of permanent and temporary surface water fill due to dewatering and the installation of a triple-barrel culvert.

## 1. Individually list wetland impacts below:

Wetland Impact Site Number (indicate on map)	Type of Impact*	Area of Impact (acres)	Located within 100-year Floodplain** (yes/no)	Distance to Nearest Stream (linear feet)	Type of Wetland***

<sup>\*</sup> List each impact separately and identify temporary impacts. Impacts include, but are not limited to: mechanized clearing, grading, fill, excavation, flooding, ditching/drainage, etc. For dams, separately list impacts due to both structure and flooding.

List the total acreage (estimated) of all e	existing wetlands on the property: 0	
Total area of wetland impact proposed:_		

## 2. Individually list all intermittent and perennial stream impacts below:

Stream Impact Site Number (indicate on map)	Type of Impact*	Length of Impact (linear feet)	Stream Name**	Average Width of Stream Before Impact	Perennial or Intermittent? (please specify)
1 (12+02-L-)	Permanent	119.0 feet	Trib. to Mills Creek	2.0 feet	Perennial
1 (12+02-L-)	Temporary	55.0 feet	Trib. to Mills Creek	2.0 feet	Perennial

<sup>\*</sup> List each impact separately and identify temporary impacts. Impacts include, but are not limited to: culverts and associated rip-rap, dams (separately list impacts due to both structure and flooding), relocation (include linear feet before and after, and net loss/gain), stabilization activities (cement wall, rip-rap, crib wall, gabions, etc.), excavation, ditching/straightening, etc. If stream relocation is proposed, plans and profiles showing the linear footprint for both the original and relocated streams must be included.

\*\* Stream names can be found on USGS topographic maps. If a stream has no name, list as UT (unnamed tributary) to the nearest downstream named stream into which it flows. USGS maps are available through the USGS at 1-800-358-9616, or online at <a href="https://www.usgs.gov">www.usgs.gov</a>. Several internet sites also allow direct download and printing of USGS maps (e.g., <a href="https://www.topozone.com">www.topozone.com</a>, <a href="https://

Cumulative impacts (line	ear distan	ice in	feet) to	all :	streams	on site	: <u>119.0</u>	feet	of	permanent
surface water impact and	d 55.0 fe	et of	tempora	ary	surface	water	impact	Cumu	ılati	ve impacts
total 174.0 linear feet.			_							

<sup>\*\* 100-</sup>Year floodplains are identified through the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps (FIRM), or FEMA-approved local floodplain maps. Maps are available through the FEMA Map Service Center at 1-800-358-9616, or online at http://www.fema.gov.

<sup>\*\*\*</sup> List a wetland type that best describes wetland to be impacted (e.g., freshwater/saltwater marsh, forested wetland, beaver pond, Carolina Bay, bog, etc.) Indicate if wetland is isolated (determination of isolation to be made by USACE only).

3. Individually list all open water impacts (including lakes, ponds, estuaries, sounds, Atlantic Ocean and any other water of the U.S.) below:

Open Water Impact Site Number (indicate on map)	Type of Impact*	Area of Impact (acres)	Name of Waterbody (if applicable)	Type of Waterbody (lake, pond, estuary, sound, bay, ocean, etc.)

List each impact separately and identify temporary impacts. Impacts include, but are not limited to: fill, excavation, dredging, flooding, drainage, bulkheads, etc.

4.	Pond Creation	
	IC	

	associated wetland and stream impacts should be n impact sections. Also, the proposed pond should
be described here and illustrated on any r	
Pond to be created in (check all that apply	y): uplands stream wetlands e.g., dam/embankment, excavation, installation of
Proposed use or purpose of pond (e.g., local stormwater requirement, etc.):	livestock watering, irrigation, aesthetic, trout pond
Cina of contambad durining to many	F
Size of watershed draining to pond:	Expected pond surface area:

## VII. Impact Justification (Avoidance and Minimization)

Specifically describe measures taken to avoid the proposed impacts. It may be useful to provide information related to site constraints such as topography, building ordinances, accessibility, and financial viability of the project. The applicant may attach drawings of alternative, lower-impact site layouts, and explain why these design options were not feasible. Also discuss how impacts were minimized once the desired site plan was developed. If applicable, discuss construction techniques to be followed during construction to reduce impacts.

The selected design was chosen because a good off-site detour is available, it has fewer impacts on adjacent residential properties, and it will create comparatively lower environmental impacts.

## VIII. Mitigation

DWQ - In accordance with 15A NCAC 2H .0500, mitigation may be required by the NC Division of Water Quality for projects involving greater than or equal to one acre of impacts to freshwater wetlands or greater than or equal to 150 linear feet of total impacts to perennial streams.

USACE – In accordance with the Final Notice of Issuance and Modification of Nationwide Permits, published in the Federal Register on March 9, 2000, mitigation will be required when necessary to ensure that adverse effects to the aquatic environment are minimal. Factors

including size and type of proposed impact and function and relative value of the impacted aquatic resource will be considered in determining acceptability of appropriate and practicable mitigation as proposed. Examples of mitigation that may be appropriate and practicable include, but are not limited to: reducing the size of the project; establishing and maintaining wetland and/or upland vegetated buffers to protect open waters such as streams; and replacing losses of aquatic resource functions and values by creating, restoring, enhancing, or preserving similar functions and values, preferable in the same watershed.

If mitigation is required for this project, a copy of the mitigation plan must be attached in order for USACE or DWQ to consider the application complete for processing. Any application lacking a required mitigation plan or NCWRP concurrence shall be placed on hold as incomplete. An applicant may also choose to review the current guidelines for stream restoration in DWQ's Draft Technical Guide for Stream Work in North Carolina, available at <a href="http://h2o.enr.state.nc.us/ncwetlands/strmgide.html">http://h2o.enr.state.nc.us/ncwetlands/strmgide.html</a>.

Provide a brief description of the proposed mitigation plan. The description should provide
as much information as possible, including, but not limited to: site location (attach directions
and/or map, if offsite), affected stream and river basin, type and amount (acreage/linear feet)
of mitigation proposed (restoration, enhancement, creation, or preservation), a plan view
preservation mechanism (e.g., deed restrictions, conservation easement, etc.), and a
description of the current site conditions and proposed method of construction. Please attach
a separate sheet if more space is needed.
N/A

2. Mitigation may also be made by payment into the North Carolina Wetlands Restoration Program (NCWRP). Please note it is the applicant's responsibility to contact the NCWRP at (919) 733-5208 to determine availability and to request written approval of mitigation prior to submittal of a PCN. For additional information regarding the application process for the NCWRP, check the NCWRP website at <a href="http://h2o.enr.state.nc.us/wrp/index.htm">http://h2o.enr.state.nc.us/wrp/index.htm</a>. If use of the NCWRP is proposed, please check the appropriate box on page three and provide the following information:

## Environmental Documentation (required by DWQ)

Total

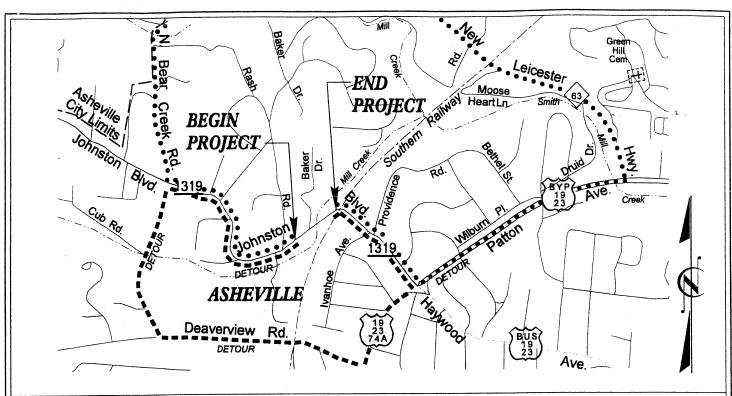
IX.

(federal	/state) land?	e an expenditure o	of public (federal/	state) funds or	the use of public
requirer Note: coordin	ments of the Nat If you are not ator at (919) 733-	ional or North C	arolina Environme EPA/SEPA docur	ental Policy Ac ment is require	at pursuant to the ct (NEPA/SEPA)? d, call the SEPA documentation.
copy of	the NEPA or SEF	review been finaliz PA final approval le		earinghouse? If	so, please attach a
Proposed Impacts on Riparian and Watershed Buffers (required by DWQ)					
required justification and mu map, w Regiona	t is the applicant's (or agent's) responsibility to determine, delineate and map all impacts to equired state and local buffers associated with the project. The applicant must also provide ustification for these impacts in Section VII above. All proposed impacts must be listed herein, and must be clearly identifiable on the accompanying site plan. All buffers must be shown on a map, whether or not impacts are proposed to the buffers. Correspondence from the DWQ Regional Office may be included as appropriate. Photographs may also be included at the applicant's discretion.				must also provide ast be listed herein, aust be shown on a se from the DWQ
(Neuse) Water S	), 15A NCAC 2E Supply Buffer Req		ico), 15A NCAC r (please identify_	2B .0250 (Ran	
•	ion is required c	_	-	_	buffers. <u>If</u> buffer oplying the buffer
	Zone*	Impact (square feet)	Multiplier	Required Mitigation	

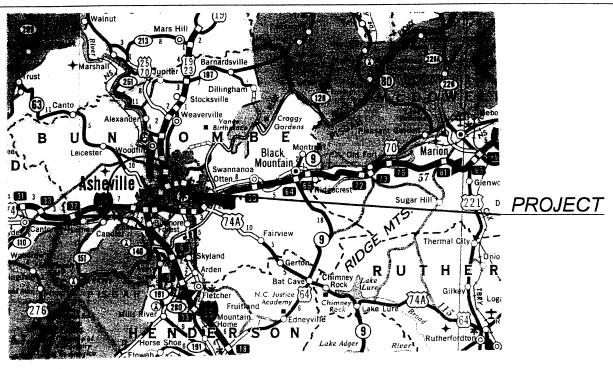
Zone 1 extends out 30 feet perpendicular from near bank of channel; Zone 2 extends an additional 20 feet from the edge of Zone 1.

	Stormwater (required by DWQ)
	Describe impervious acreage (both existing and proposed) versus total acreage on the site. Discuss stormwater controls proposed in order to protect surface waters and wetlands downstream from the property.
	Sewage Disposal (required by DWQ)
	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility.
ī.	Violations (required by DWQ)
	Is this site in violation of DWQ Wetland Rules (15A NCAC 2H .0500) or any Buffer Rules?  Yes ☐ No ☒
	Is this an after-the-fact permit application? Yes ☐ No ☒
II.	Other Circumstances (Optional):
	It is the applicant's responsibility to submit the application sufficiently in advance of desired construction dates to allow processing time for these permits. However, an applicant may choose to list constraints associated with construction or sequencing that may impose limits on work schedules (e.g., draw-down schedules for lakes, dates associated with Endangered and Threatened Species, accessibility problems, or other issues outside of the applicant's control).

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## PORTION OF BUNCOMBE COUNTY MAP



## PORTION OF STATE MAP

## <u>NORTH CAROLINA</u> <u>DEPARTMENT OF HIGHWAYS</u>

BUNCOMBE COUNTY

8.2844101 (B-3616)

REPLACEMENT BRIDGE NO.740

AND APPROACHES ON SR 1319 (JOHNSTON BLVD)

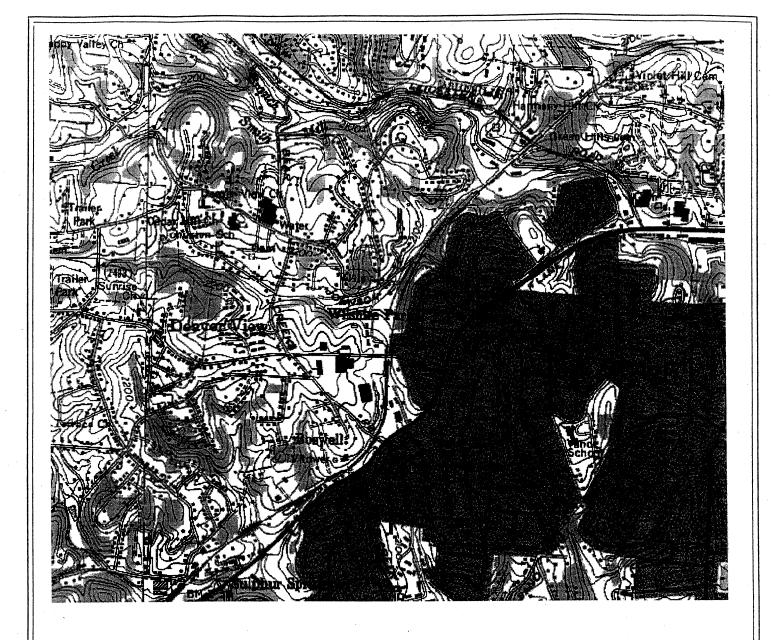
OVER TRIB TO MILL CREEK

WETLAND IMPACTS

SCALE AS SHOWN

10/15/2002

SHEET 1 OF 7



# QUAD MAP OVERLAY WETLAND SITE MAP

<u>NORTH CAROLINA</u> <u>DEPARTMENT OF HIGHWAYS</u>

BUNCOMBE COUNTY

8.2844101 (B-3616)

REPLACEMENT BRIDGE NO.740

AND APPROACHES ON SR 1319 (JOHNSTON BLVD.)

OVER TRIB TO MILL CREEK

SCALE AS SHOWN

10/15/2002

SHEET 2 OF 7

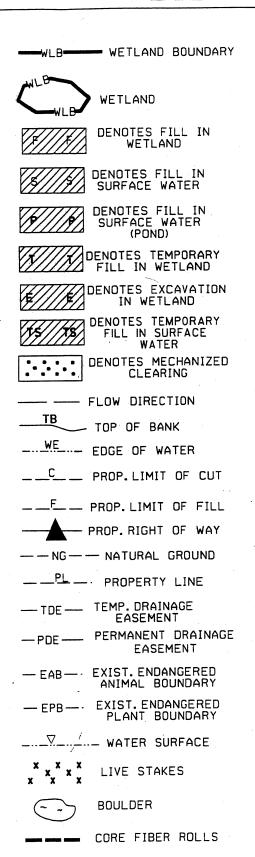


0 1/4 1/2
SCALE IN MILES

9:29:47 AM

## WETLAND

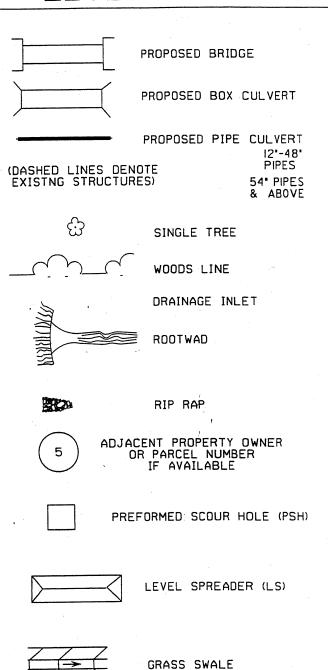
## LEGEND



SPECIAL DITCH

**GRADE** 

SDG

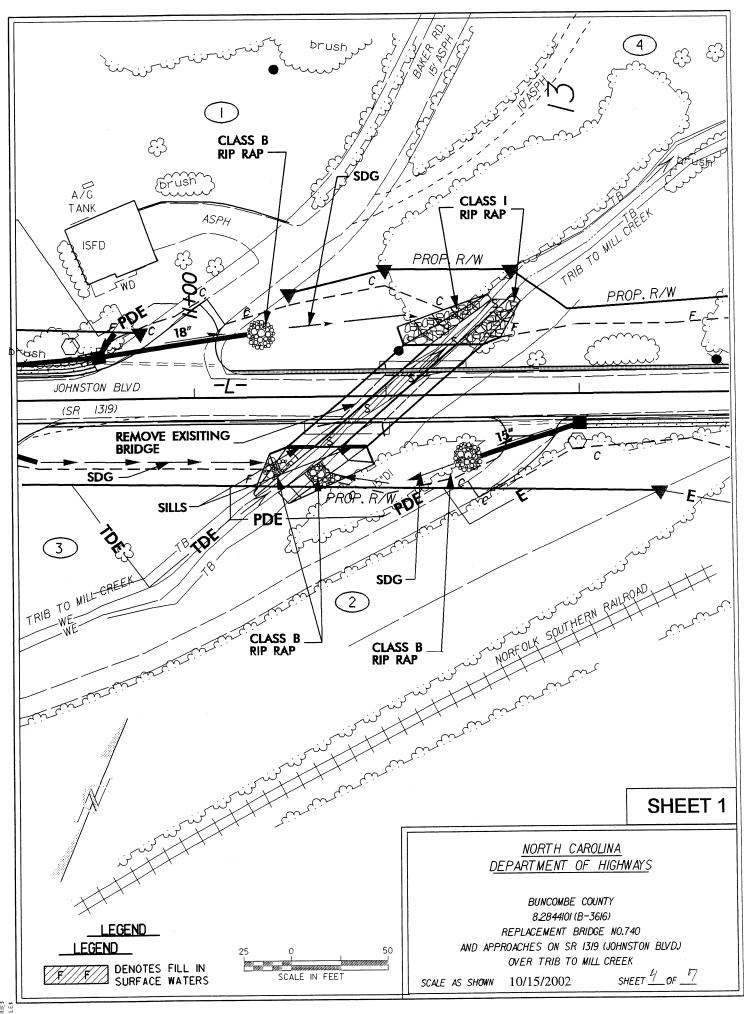


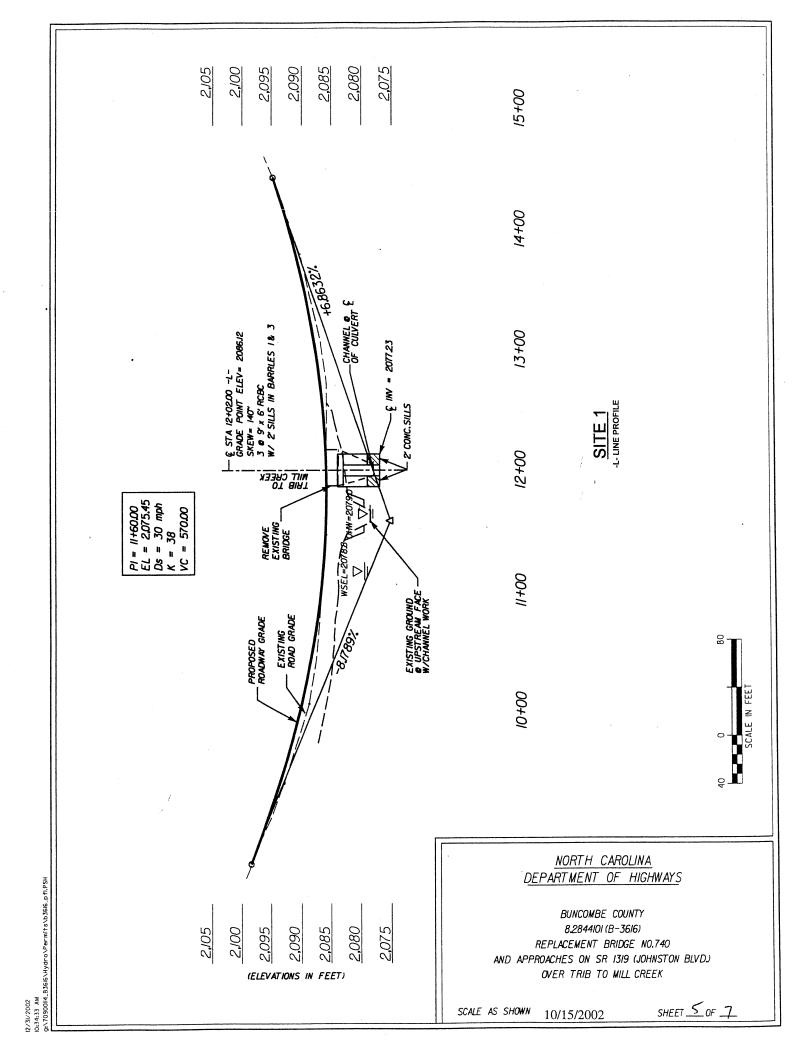
## <u>NORTH CAROLINA</u> <u>DEPARTMENT OF HIGHWAYS</u>

BUNCOMBE COUNTY
8.2844101 (B-3616)
REPLACEMENT BRIDGE NO.740
AND APPROACHES ON SR 1319 (JOHNSTON BLVD)
OVER TRIB TO MILL CREEK

SCALE AS SHOWN 10/15/2002

SHEET 3 OF 7





			M.	ETLAND PERMIT IMPA WETLAND IMPACTS	NIMPACTS	WETLAND PERMIT IMPACT SUMMARY WETLAND IMPACTS		SURFA	SURFACE WATER IMPACTS	PACTS	
Site No.	Station (From/To)	Structure Size / Type	Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Dewatering (ft)	Existing Channel Impacted (ft)	Natural Stream Design (ft)
-	12+02-L-	CULVERT FILL							55	119	
1											
			000	5		000	90	900	55.00	119.00	0.00
IOIALS:	io		00.0		000						
								NC DEP	NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	OF TRANS	PORTATIO: AYS
									BUNCON PROJECT 8	BUNCOMBE COUNTY PROJECT 8.2844101 B-3616	16

## SUMMARY OF AFFECTED PROPERTY OWNERS

TRACT NO.	PROPERTY OWNER	ADDRESS	SITE NO.
	ALLISON C. PEREZ	127 CRANFORD RD ASHEVILLE, NC 28806	l
2	WEST CONGREGATION OF JEHOVAH'S WITNESSES	8 MERLIN WAY ASHEVILLE, NC 28806	
3	ROBERT C AND BABRBARA F BIESTERFEDLT	568 HAYWOOD RD ASHEVILLE, NC 28806	I
4	GEORGE W AND IRENE B	IO5 JOHNSTON BLVD ASHEVILLE, NC 28806	
		, , , , , , , , , , , , , , , , , , ,	·

<u>NORTH CAROLINA</u> DEPARTMENT OF HIGHWAYS

BUNCOMBE COUNTY

8.2844101 (B-3616)

REPLACEMENT BRIDGE NO.740

AND APPROACHES ON SR 1319 (JOHNSTON BLVD)

OVER TRIB TO MILL CREEK

SCALE AS SHOWN

SHEET 6 OF 7

am 114\_B3616\Hydro\Permits\B3616\_propertyowners.

See Sheet 1-A For Index of Sheets 19 Ö **PROJEC** 

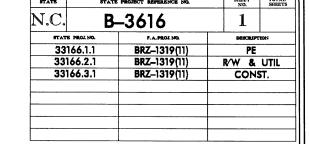
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

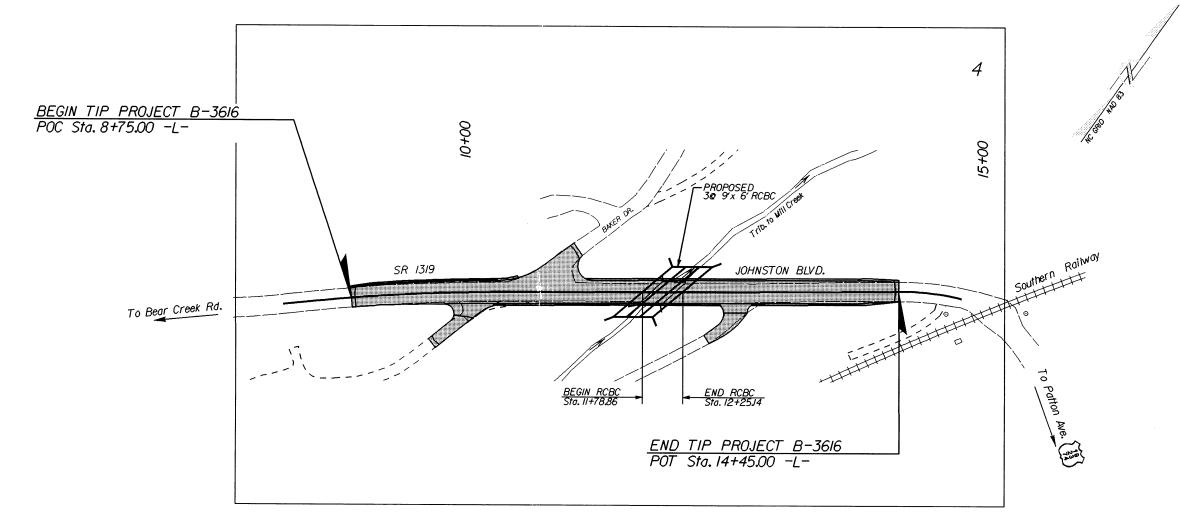
## **BUNCOMBE COUNTY**

LOCATION: REPLACEMENT OF BRIDGE NO. 740 AND APPROACHES ON SR 1319 (JOHNSTON BLVD.) OVER TRIBUTARY TO MILL CREEK

TYPE OF WORK: GRADING, PAVING, DRAINAGE, GUARDRAIL

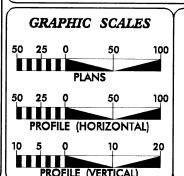
& CULVERT





\*\*DESIGN EXCEPTION FOR DESIGN SPEED REQUIRED

VICINITY MAP



## DESIGN DATA

ADT 2003 = 5,500ADT 2025 = 7,300DHV = 8 %

> D = 65 %T = 3 % \*V = 40 MPH\*\*

## PROJECT LENGTH

LENGTH OF ROADWAY T.I.P. PROJECT B-3616 LENGTH OF STRUCTURE T.I.P. PROJECT B-3616

TOTAL LENGTH OF T.I.P. PROJECT B-3616

## 2002 STANDARD SPECIFICATIONS KEVIN J. VAN METRE, PE

RIGHT OF WAY DATE: **AUGUST 15, 2003** LETTING DATE: AUGUST 17, 2004

NCDOT CONTACT:

KEITH F. HUDSON CATHY S. HOUSER, PE ROADWAY DESIGN **ENGINEER** 

HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

STATE DESIGN ENGINEER

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

<u>APPROVED</u> DIVISION ADMINISTRATOR

\* TTST 1 % DUAL 2 %

\*S.U.E. = Subsurface Utility Engineering

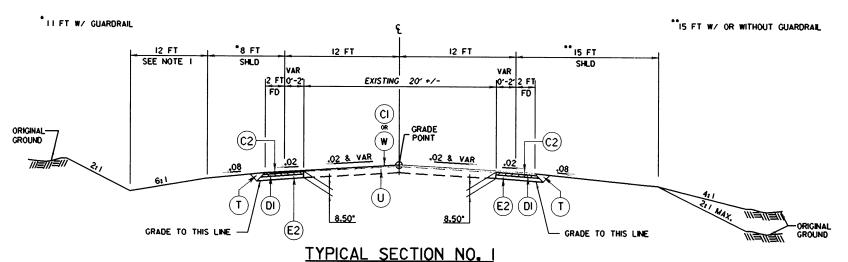
## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:	RAILROADS:	
State Line	Standard Guage	- + + + + + + + + + + + + + + + + + + +
County Line ····	RR Signal Milepost	CSX / KANSPURI AI IUN
Township Line	Switch	
City Line	RR Abandoned ·	SWITCH
Reservation Line	RR Dismantled	
Property Line		
Existing Iron Pin	RIGHT OF WAY:	
Property Corner	Baseline Control Point	•
Property Monument	Existing Right of Way Marker	$\triangle$
Parcel/Sequence Number	Existing Right of Way Line	_
<b>Existing Fence Line</b>	Proposed Right of Way Line	•
Proposed Woven Wire Fence	Proposed Right of Way Line with Iron Pin and Cap Marker	<b>◆</b>
Proposed Chain Link Fence Proposed Barbed Wire Fence	Proposed Right of Way Line with Concrete or Granite Marker	<b></b>
Existing Wetland Boundary	Existing Control of Access	
Proposed Wetland Boundary	Proposed Control of Access	
Existing High Quality Wetland Boundary ************************************	Existing Easement Line	•
Existing Endangered Animal Boundary	Proposed Temporary Construction Easement	
Existing Endangered Plant Boundary	Proposed Temporary Drainage Easement	
DIM DDIGG AND OFFICE OVER THE	Proposed Permanent Drainage Easement	PDE
BUILDINGS AND OTHER CULTURE:  Gas Pump Vent or U/G Tank Cap	Proposed Permanent Utility Easement	
Sign 9	ROADS AND RELATED FEATUR	PES:
Well	Existing Edge of Pavement	
Small Mine ·····	Existing Curb	
Foundation ····	Proposed Slope Stakes Cut	
Area Outline	Proposed Slope Stakes Fill	
Cemetery	Proposed Wheel Chair Ramp	
Building ····	Curb Cut for Future Wheel Chair Ramp	
School ····	Existing Metal Guardrail	_
Church	Proposed Guardrail	
Dam	Existing Cable Guiderail	
YW/DDAY AGY!	Proposed Cable Guiderail	
HYDROLOGY:	Equality Symbol	•
Stream or Body of Water	Pavement Removal	
Hydro, Pool or Reservoir		
River Basin Buffer	VEGETATION:	
Flow Arrow	Single Tree	
Disappearing Stream	Single Shrub	
Spring	Hedge ·	
Swamp Marsh	Woods Line	
Proposed Lateral, Tail, Head Ditch	Orchard	- 6 6 6 6
False Sump ·····	Vineyard	Vineyard

EVIORING CONTINUE	
EXISTING STRUCTURES:	
MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	) conc ww (
MINOR: Head and End Wall	
Pipe Culvert	•
Footbridge	
•	
Paved Ditch Gutter =	СВ
Storm Sewer Manhole	
Storm Sewer	•
JOHN JOWEI	
UTILITIES:	
POWER:	
Existing Power Pole · · · · · · · · · · · · · · · · · · ·	<b>.</b>
Proposed Power Pole	ď
Existing Joint Use Pole	<b>—</b>
Proposed Joint Use Pole	<b>-</b>
Power Manhole	e P
Power Line Tower	$\bowtie$
Power Transformer	<u> </u>
U/G Power Cable Hand Hole	HH
H-Frame Pole	•—•
Recorded U/G Power Line	Р
Designated U/G Power Line (S.U.E.*)	
TELEPHONE:	
Existing Telephone Pole ·····	
Proposed Telephone Pole ·····	<b>-0</b> -
Telephone Manhole	ூ
Telephone Booth	3
Telephone Pedestal	I
Telephone Cell Tower	.♣,
U/G Telephone Cable Hand Hole	HH
Recorded U/G Telephone Cable	т
Designated U/G Telephone Cable (S.U.E.*)	r
Recorded U/G Telephone Conduit	тс
Designated U/G Telephone Conduit (S.U.E.*)	rc
Recorded U/G Fiber Optics Cable	т ғо
Designated U/G Fiber Optics Cable (S.U.E.*)	r F0

WATER:	
Water Manhole · · · · · · · · · · · · · · · · · · ·	W
Water Meter	0
Water Valve	$\otimes$
Water Hydrant	♦
Recorded U/G Water Line	
Designated U/G Water Line (S.U.E.*)	
Above Ground Water Line	A/G Water
TV:	
TV Satellite Dish ·····	K
TV Pedestal	
TV Tower	$\otimes$
U/G TV Cable Hand Hole ·····	HH
Recorded U/G TV Cable	
Designated U/G TV Cable (S.U.E.*)	rv
Recorded U/G Fiber Optic Cable	TV F0
Designated U/G Fiber Optic Cable (S.U.E.*)	TV F0 ·
GAS:	
Gas Valve	<b>♦</b>
Gas Meter	<b>♦</b>
Recorded U/G Gas Line	
Designated U/G Gas Line (S.U.E.*)	
Above Ground Gas Line	
SANITARY SEWER:	
Sanitary Sewer Manhole · · · · · · · · · · · · · · · · · · ·	•
Sanitary Sewer Cleanout	<b>⊕</b>
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	A/G SanItary Sewer
Recorded SS Forced Main Line	FSS
Designated SS Forced Main Line (S.U.E.*)	
MISCELLANEOUS:	
Utility Pole	•
Utility Pole with Base	
Utility Located Object	⊙
Utility Traffic Signal Box	[5]
Utility Unknown U/G Line	
U/G Tank; Water, Gas, Oil	
A/G Tank; Water, Gas, Oil	<u></u>
U/G Test Hole (S.U.E.*)	<b>▼</b>
Abandoned According to Utility Records	AATUR
End of Information	501



PROJECT REFERENCE NO. SHEET NO.

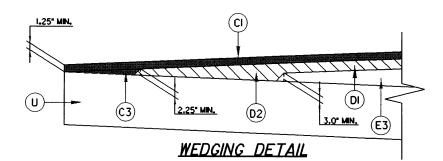
B-3616

2

PAVEMENT DESIGN
ENGINEER

ROADWAY DESIGN
ENGINEER





	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A. AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
СЗ	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1.8" IN DEPTH.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.25" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 3.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E <b>2</b>	PROP. APPROX. 3.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD.
E <b>3</b>	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT GREATER THAN 5.5" IN DEPTH OR LESS THAN 3" IN DEPTH.
J1	PROPOSED 6" AGGREGATE BASE COURSE.
R1	CONCRETE EXPRESSWAY GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
w	WEDGING ( SEE DETAIL THIS SHEET )

## TYPICAL SECTION NO. I

 ROADWAY
 FROM STATION
 TO STATION
 REMARKS

 -L 8+75.00
 II+I0.00
 SEE INSERT

 -L I2+50.00
 I4+45.00
 SEE INSERT

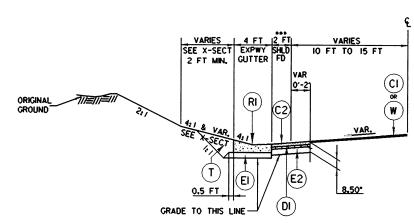
\* II FT W/ GUARDRAIL "15 FT W/ OR WITHOUT GUARDRAIL 12 FT SEE NOTE 1 "15 FT I2 FT \*8 FT I2 FT SHLD ORIGINAL: (C2) - GRADE POINT GROUND (DI) (E2) (DI) (E2) GRADE TO THIS LINE-

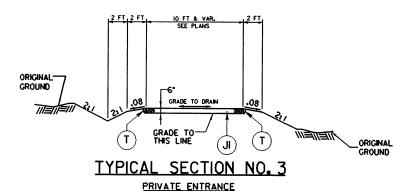
## TYPICAL SECTION NO. 2

NEW PAVEMENT

 ROADWAY
 FROM STATION
 TO STATION

 -L II+I0.00
 12+50.00





## INSERT A

 ROADWAY
 FROM STATION
 TO STATION
 SIDE

 -L 8+80.00
 IO+48.00
 LT

 -L 9+00.00
 9+68.00
 RT\*\*\*\*

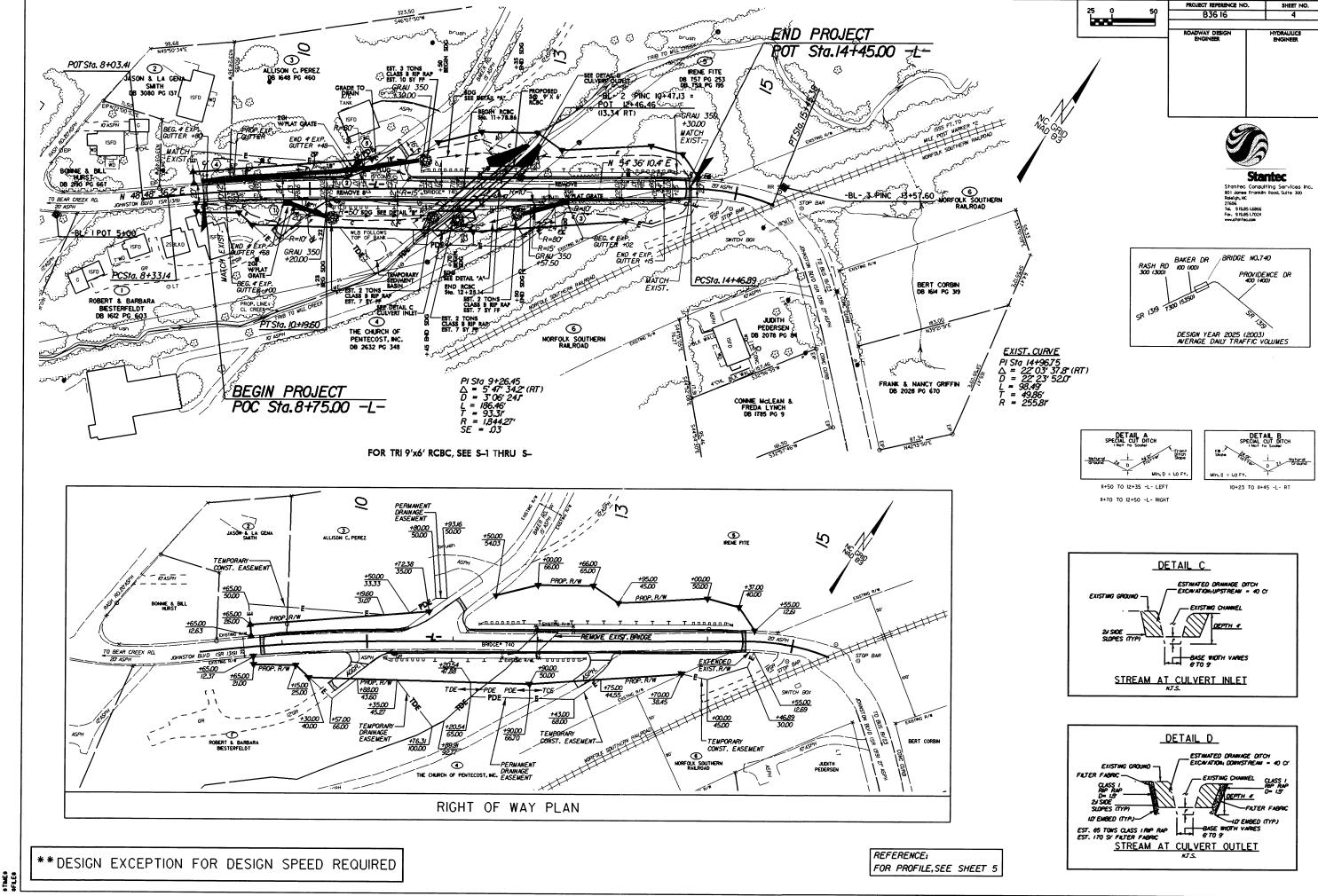
 -L I3+02.00
 I4+15.00
 RT

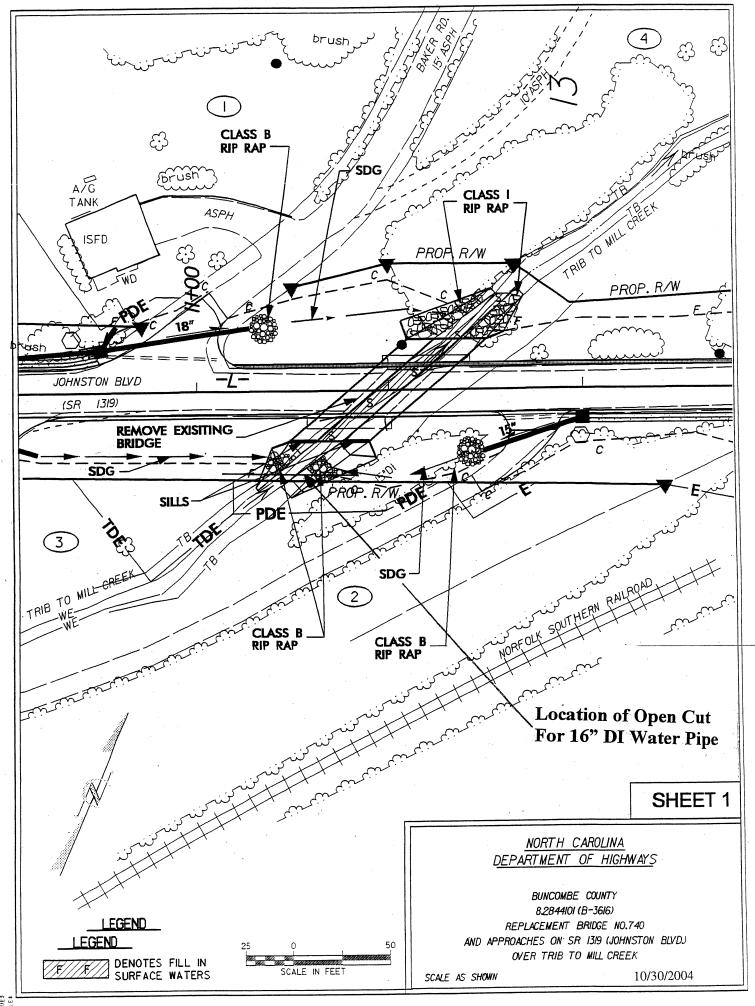
## REMARKS

\*\*\* NO PAVED SHOULDER AT THIS LOCATION

#### NOTES:

- I. DISTANCE WILL VARY TO REACH THE DESIRED ELEVATION AS ESTABLISHED BY THE DITCH GRADE. (SEE PROFILES AND X-SECTIONS)
- 2. ALL PAVEMENT STRUCTURE SLOPES ARE 1:1 UNLESS OTHERWISE SPECIFIED.







## United States Department of the Interior

## FISH AND WILDLIFE SERVICE

Asheville Field Office 160 Zillicoa Street Asheville, North Carolina 28801

March 3, 2004

Mr. Lindsey Riddick Environmental Supervisor Office of Natural Resources North Carolina Department of Transportation 1548 Mail Service Center Raleigh, North Carolina 27699-1548

Dear Mr. Riddick:

Subject: Endangered Species Concurrence for Two Bridge Replacements in Buncombe County, North Carolina--B-3614, Bridge No. 300 on SR 1141 over Hominy Creek, and B-3616, Bridge No. 740 on SR 1319 over a Tributary to Mill Creek

As requested by the North Carolina Department of Transportation, we have reviewed the natural resources information and biological conclusions for federally protected species for the subject projects. We provide the following comments in accordance with the provisions of section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531-1543) (Act).

We have reviewed the updated survey information provided for impacts to the federally threatened Virginia spiraea (Spiraea virginiana). Given the information provided, we agree that there will be no effect to federally listed species and believe the requirements under section 7(c) of the Act are fulfilled regarding listed species for the subject projects. However, obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered, (2) this action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed or critical habitat is determined that may be affected by the identified action.

If you have questions about these comments, please contact Ms. Marella Buncick of our staff at 828/258-3939, Ext. 237. In any future correspondence concerning these projects, please reference our Log Numbers 4-2-04-118 for B-3614 and 4-2-04-119 for B-3616.

Sincerely,

Brian P. Cole

Field Supervisor

POPPLIND for